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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,458	09/26/2003	Timo Tokkonen	879A.0012.U1(US)	9731

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EXAMINER

LONG, ANDREA NATAE

ART UNIT	PAPER NUMBER
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2176

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/22/2006	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/672,458	Applicant(s) TOKKONEN, TIMO	
	Examiner Andrea N. Long	Art Unit 2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-14 have been rejected in response to application filed 09/26/2003.

Claim Objections

2. Claim 1 objected to because of the following informalities: Line 1 of claim 1 recites "device in which method". "Method" should be deleted for readability purposes and rewritten as "device in which". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Venolia et al (US Patent 6573844 B1), hereinafter, "Venolia".

As for claim 1, Venolia teaches a method for using an electronic device (column 5 lines 23-26, "PDA") in which method

a user controls said electronic device by inputting a separate information unit by using input elements of a dynamic I/O arrangement belonging to a user interface of the electronic device (column 5 lines 54-56, column 5 line 63 through column 6 line 9)

after each input the information unit is identified and it is verified if it is possible to predict which will be a next information unit to be input (column 6 lines 44-45)

if the prediction of the information unit is successful at least one of input elements in the user interface of the electronic device is emphasized (column 6 lines 44-59).

As to claim 2, Venolia teaches whereby the input of the information unit is fulfilled by a press of a separate key belonging to the user interface (column 6 lines 4-9).

As to claim 3, Venolia teaches where the dynamic I/O arrangement comprises a touch display or a projection keyboard (column 5 lines 26-27, Figure 2 reference character 404, "soft keyboard").

As to claim 4, Venolia teaches where a size of an input element on the touch display is enlarged if the input element is predicted to be used next (column 6 lines 55-59).

As to claim 5, Venolia teaches where the size of a separate input element is determined by the predicted probability of the use of the input element (column 6 lines 55-59).

As to claim 6, Venolia teaches an electronic device (PDA) comprising

- a means for processing ("processing unit", Figure 1 reference character 21) and saving information ("system memory", Figure 1 reference character 22)
- a means for inputting an information unit in the electronic device by an input element of a dynamic I/O arrangement (column 5 lines 54-56, column 5 line 63 through column 6 line 9)
- a means for assessing, whether it is possible after the input of the information unit to predict which is the next information unit to be input and (column 6 lines 44-45)
- a means for emphasizing the predicted input element in the dynamic I/O arrangement (column 6 lines 44-59).

As to claim 7, Venolia teaches where the input element is defined by an area on a touch display or a projection keyboard (column 5 lines 26-27, Figure 2 reference character 404, "soft keyboard").

As to claim 8, Venolia teaches where the input element on the touch display or projection keyboard is enlarged, if the input element is predicted to be used next (column 6 lines 55-59).

As to claim 9, Venolia teaches where a size of a separate input element is defined on the basis how probable it is to be used next (column 6 lines 55-59).

As to claim 10, Venolia teaches the electronic device which is a cellular terminal or PDA (column 5 lines 39-41).

Claim 11 is rejected under the same reasoning as claim 1.

Claim 12 is rejected under the same reasoning as claim 2.

As to claim 13, Venolia teaches where the emphasizing of the input element is fulfilled by enlarging the size of the input element (column 6 lines 55-59).

As to claim 14, Venolia teaches where the program is saved on an information carrier (column 8 lines 64-67, "CD-ROM").

Conclusion

5. The prior art made of record on Form PTO 892 and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrea N. Long whose telephone number is 571-270-1055. The examiner can normally be reached on Mon - Thurs 7:30 am to 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on 571-272-4136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andrea N. Long
12/19/2006

William L. Bashore
WILLIAM BASHORE
PRIMARY EXAMINER